

5 **A METHOD FOR REGULATING GENES WITH ELECTROMAGNETIC**
 RESPONSE ELEMENTS

ABSTRACT

10 A non-invasive method for gene regulation during gene
 therapy comprises the steps of introducing electromagnetic
 field response elements into a gene promoter not having any
 electromagnetic field response elements to serve as switches
 for regulating exogenously introduced genes, and applying an
 electromagnetic field to the introduced electromagnetic field
 response elements to induce gene expression. In this way, a
15 safer, more effective, and more precise method for gene therapy
 is provided of inducing production of desired genetic products.